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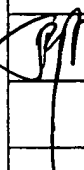
PTO/SB (12-97)  
Approved for use through 9/30/00. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Application Number</b>	10/718,833
	<b>Filing Date</b>	November 21, 2003
	<b>First Named Inventor</b>	Wilson
	<b>Group Art Unit</b>	1645
	<b>Examiner Name</b>	Not Yet Assigned
	<b>Attorney Docket Number</b>	23239-541

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1	5,270,163	12/14/93	Gold et al.	435	6	
	A2	5,475,096	12/12/95	Gold et al.	536	23.1	
	A3	5,496,938	03/05/96	Gold et al.	536	22.1	
	A4	5,567,588	10/22/96	Gold et al.	435	6	
	A5	5,580,737	12/03/96	Polisky et al.	435	6	
	A6	5,637,459	06/10/97	Burke et al.	435	6	
	A7	5,648,214	07/15/97	Nicuwlandt et al.	435	6	
	A8	5,660,985	08/26/97	Pieken et al.	435	6	
	A9	5,672,695	09/30/97	Eckstein et al.	536	24.5	
	A10	5,683,867	11/04/97	Biesecker et al.	435	6	
	A11	5,698,687	12/16/97	Eckstein et al.	536	25.3	
	A12	5,705,337	01/06/98	Gold et al.	435	6	
	A13	5,707,796	01/13/98	Gold et al.	435	6	
	A14	5,763,177	06/09/98	Gold et al.	435	6	
	A15	5,817,635	10/06/98	Eckstein et al.	514	44	
	A18	5,859,228	01/12/99	Janjic et al.	536	24.3	
	A17	5,958,691	09/28/99	Pieken et al.	435	6	
	A18	6,011,020	01/04/020	Gold et al.	514	44	
	A19	6,051,698	04/18/00	Janjic et al.	536	24.31	
	A20	6,346,611 B1	02/12/02	Pagratis et al.	536	23.1	
U.S. PUBLISHED APPLICATION DOCUMENTS							
Exam Initials	Cite No.	U.S. Published Application No.	Published Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A21	2002/0025941 A1	02/28/02	Meyer	514	44	
	A22	2002/0034506 A1	03/21/02	Pietras et al.	424	94.63	
	A23	2002/0034757 A1	03/21/02	Cubicciotti	435	6	

Examiner  
Signature

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canceled  
12/5/05

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No		
	B1	WO 91/19813	THE UNIVERSITY OF COLORADO FOUNDATION, INC.	12/26/91			
	B2	WO 92/07065	MAXPLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN	04/30/92			
	B3	WO 98/18480	NEXSTAR PHARMACEUTICALS, INC.	05/07/98			

OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS							
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.					
	C1	Cotten et al. <i>Nucl. Acids Res.</i> , 19(10):2629-2635 (1991)					
	C2	Froehler et al. <i>Nucl. Acids Res.</i> , 14(13):5399-5407 (1986)					
	C3	Froehler et al. <i>Tet. Lett.</i> , 27(46):5575-5578 (1986)					
	C4	Hirose et al. <i>Tet. Lett.</i> , 28:2449-2452 (1978)					
	C5	Hobbs et al. <i>Biochem.</i> , 12(25):5138-5145 (1973)					
	C6	Jellinek et al., <i>Biochem.</i> , 34(36):11363-11372 (1995)					
	C7	Kraus et al. <i>J. Immunol.</i> , 160:5209-5212 (1998)					
	C8	Lin et al. <i>Nucl. Acids Res.</i> , 22(24):5229-5234 (1994)					
	C9	Pagratis et al. <i>Nat. Biotechnol.</i> , 15(1):68-73 (1997)					
	C10	Pieken, et al., <i>Science</i> , 253:314-317 (1991)					
	C11	Sood et al. <i>Nucl. Acids Res.</i> , 4(8):2757-2765 (1977)					
	C12	Sproat et al. <i>Nucl. Acids Res.</i> , 19(4):733-738 (1991)					
	C13	Tucker et al. <i>Chromatography B.</i> , 732:203-212 (1999)					
	C14	International Search Report for PCT/US03/37338, mailing date: August 23, 2004.					

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	12/5/05
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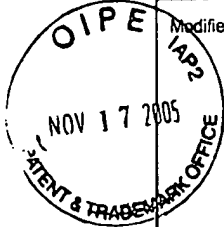
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Modified Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/718,833
Filing Date	November 21, 2003
First Named Inventor	Epstein
Group Art Unit	1635
Examiner Name	Jon Benjamin Ashen
Attorney Docket Number	23239-541



**U.S. PATENT DOCUMENTS**



Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
<i>JA</i>	*A24	3,710,795	01/16/73	Higuchi et al.			
<i>JA</i>	*A25	4,683,195	07/28/87	Mullis			
<i>JA</i>	*A26	4,935,363	06/19/90	Brown et al.			
<i>JA</i>	*A27	4,959,309	9/25/90	Dattagupta et al.			
<i>JA</i>	*A28	5,070,010	12/03/91	Hsu			
<i>JA</i>	*A29	5,262,564	11/16/93	Kun et al.			
<i>JA</i>	*A30	5,338,671	8/16/94	Scalice et al.			
<i>JA</i>	*A31	5,459,015	10/17/95	Janjic et al.			
<i>JA</i>	*A32	5,503,978	4/12/96	Schneider et al.			
<i>JA</i>	*A33	5,635,615	06/03/97	Allen et al.			
<i>JA</i>	*A34	5,654,151	08/05/97	Allen et al.			
<i>JA</i>	*A35	5,723,323	03/03/98	Kauffman et al.			
<i>JA</i>	*A36	5,763,173	06/09/98	Gold et al.			
<i>JA</i>	*A37	5,773,598	06/30/98	Burke et al.			
<i>JA</i>	*A38	5,789,157	08/04/98	Jensen et al.			
<i>JA</i>	*A39	5,861,254	01/19/99	Schneider			
<i>JA</i>	*A40	6,013,443	01/11/00	Heilig et al.			
<i>JA</i>	*A41	6,020,130	02/01/00	Gold et al.			
<i>JA</i>	*A42	6,458,559	10/01/02	Shi et al.			

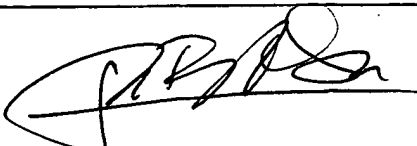
**U.S. PUBLISHED APPLICATION DOCUMENTS**

Exam Initials	Cite No.	U.S. Published Application No.	Published Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

*Examiner:*  *Initial considered 12/5/05*

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	No
	B4	WO	89/06694	TRUSTEES OF THE UNIV. OF PENNSYLVANIA	07/27/89		
	B5	WO	91/14436	ISIS PHARMACEUTICALS, INC.	10/03/91		
	B6	WO	92/05285	FRED HUTCHINSON CANCER RESEARCH CENTER	04/02/92		
	B7	WO	92/14842	GILEAD SCIENCES, INC.	09/03/92		
	B8	WO	92/14843	GILEAD SCIENCES, INC.	09/03/92		
	B9	EP	0 592 035 B1	JOHNSON & JOHNSON CLINICAL DIAGNOSTICS, INC.	04/13/94		
	B10	UK	2 183 661 A	MARK BALLIVET ET AL.	06/10/87		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C15	Andrake et al. <i>Proc. Natl. Acad. Sci. USA</i> , 85:7942-7946 (1988)
	C16	Beaudry et al. <i>Science</i> , 257:635-641 (1992)
	C17	Burke et al. <i>RNA</i> , 4:1165-1175 (1998)
	C18	Carey et al. <i>Biochem.</i> , 22(11):2601-2610 (1983)
	C19	Chen et al. <i>Biochem.</i> , 16(15):3310-3315 (1977)
	C20	Cohen et al. <i>Proc. Natl. Acad. Sci. USA</i> , 63:458-464 (1969)
	C21	Davis et al. <i>Meth. Enzymol.</i> , 267:302-314 (1996)
	C22	Debouck et al., <i>Biol. Physiol. Of the Blood-Brain Barrier In Vitro</i> , Couraud and Scherman eds., Chapter 23, pp. 143-146 (1996)
	C23	Ellington et al. Abstracts of papers presented at the 1990 meeting on RNA Processing, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, Pg. 84 (1990)
	C24	Fitzwater et al. <i>Meth. Enzymol.</i> , 267:275-301 (1996)
	C25	Frohman et al. <i>Proc. Natl. Acad. Sci. USA</i> , 85:8998-9002 (1988)
	C26	Gath et al. <i>Biol. Physiol. Of the Blood Brain-Barrier In Vitro</i> , Couraud and Scherman eds., Chapter 23, pp. 153-158 (1996)
	C27	Greenwald et al. <i>J. Org. Chem.</i> , 60:331-336 (1995)
	C28	Harris et al. <i>Nature</i> , 2:214-221 (2003)
	C29	Joyce et al. <i>Nucl. Acids Res.</i> , 17(2):711-722 (1989)
	C30	Joyce <i>Gene</i> , 82:83-87 (1989)
	C31	Kacian et al. <i>Proc. Natl. Acad. Sci. USA</i> , 69:3038-3042 (1972)
	C32	Kadonaga et al. <i>Proc. Natl. Acad. Sci. USA</i> , 83:5889-5893 (1986)
	C33	Kellogg et al. <i>BioTechniques</i> , 16(6):1134-1137 (1994)
	C34	Kinzler et al. <i>Nucl. Acids Res.</i> , 17(10):3645-3653 (1989)
	C35	Kinzler et al. <i>Mol. Cell. Biol.</i> , 10(2):634-642 (1990)
	C36	Kramer et al. <i>J. Mol. Biol.</i> , 89:719-736 (1974)
	C37	Lestienne et al. <i>Biochimie</i> , 65:49-52 (1983)
	C38	Levisohn et al. <i>Proc. Natl. Acad. Sci. USA</i> , 60:866-872 (1968)

Examiner  12/5/05  
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
[Signature]	C39	Levisohn et al. <i>Proc. Natl. Acad. Sci. USA</i> , 63:805-811 (1969)
	C40	Ma et al. <i>Cell</i> , 51:113-119 (1987)
	C41	Maniatis et al. <i>Molecular Cloning: a Laboratory Manual</i> , Cold Spring Harbor Laboratory, NY pg.118 (1982)
	C42	Maniatis et al. <i>Science</i> , 236:1237-1245 (1987)
	C43	Miele et al. <i>J. Mol. Biol.</i> , 171:281-295 (1983)
	C44	Mills et al. <i>Science</i> , 180:916-927 (1973)
	C45	Mills et al. <i>Proc. Natl. Acad. Sci. USA</i> , 58:217220 (1967)
	C46	Min et al. <i>Nucl. Acids Res.</i> , 16(11):5075-5088 (1988)
	C47	Muesing et al. <i>Nature</i> , 313:450-458 (1985)
	C48	Mullis et al., <i>CSHS Quant. Biol.</i> , L1:263-273 (1986)
	C49	Oliphant et al. <i>Meth. Enzymol.</i> , 155:568-582 (1987)
	C50	Oliphant et al. <i>Nucl. Acids Res.</i> , 16(15):7673-7683 (1988)
	C51	Oliphant et al. <i>Gene</i> , 44:177-183 (1986)
	C52	Oliphant et al. <i>Mol. Cell. Biol.</i> , 9:2944-2949 (1989)
	C53	Orgel <i>Proc. R. Soc. Lon. B</i> , 205:435-442 (1979)
	C54	Ou et al. <i>Science</i> , 239:295-297 (1988)
	C55	Robertson et al. <i>Nature</i> , 344:467-468 (1990)
	C56	Romaniuk et al. <i>Biochem.</i> , 26(6):1563-1568 (1987)
	C57	Saffhill et al. <i>J. Mol. Biol.</i> , 51:531-539 (1970)
	C58	Sambrook et al. <i>Molecular Cloning: A Laboratory Manual</i> , Cold Spring Harbor, NY, Second Ed., Section 8.9-8.10 (1989)
	C59	Singleton et al. <i>Dictionary Microbiol. Mol. Biol.</i> , Wiley & Sons, New York, NY, 2nd ed. p. 493 (1978)
	C60	Szostak <i>A Structure and Activity of Ribozymes</i> , Redesigning the Molecules of Life, (SA Benner ed.) Springer-Verlag Berlin Heidelberg, pp. 87-113 (1988)
	C61	Tanchou et al. <i>Aids Res. Hum. Retroviruses</i> , 10(8):983-993 (1994)
	C62	Thiesen et al. <i>Nucl. Acids Res.</i> , 18(11):3203-3209 (1990)
	C63	Tuerk et al. <i>Science</i> , 249:505-510 (1990)
	C64	Uhlenbeck et al. <i>J. Biomol. Struct. Dynamics</i> , 1:539-552 (1983)
	C65	Watson et al. <i>Molecular Biology of the Gene</i> , Benjamin/Cummings Publishing Co., Inc. California, pp. 267,295,323,361,394,396,397 and 405 (1987)

\* By the waiver of 37 CFR 1.98(a)(2)(i) copies of the U.S. Patents A24-42 are not submitted.

Examiner Signature	[Signature]	Date Considered	12/5/05
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